

Abstract of the Disclosure

A Gas Reservoir Evaluation and Assessment Tool utilizes an Analytical Engine to
5 produce predictions of pressure values and other production data at any point in space
and at any point in time in a reservoir. A computer system, such as a workstation, stores
a Gas Reservoir Evaluation and Assessment software which includes the Analytical
Engine and responds to input data (which includes a reservoir description and fluid
properties) by generating an output record which represents a prediction of the pressure
10 values and other data at 'any point in space' and at 'any point in time' in a reservoir. The
Analytical Engine will first calculate a pressure value in 1D for a single layer of a
reservoir at a single point in space and time; it will then calculate a pressure value in 1D
for multiple layers in the reservoir at the single point in space and time; it will then
calculate a pressure value in 2D for the multiple layers at the single point in space and
15 time; it will then calculate a pressure value in 3D for the multiple layers at the single
point in space and time; and it will then calculate a pressure values in 3D for multiple
layers not only at a single point in space but also at any future point in time.